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(54) **ARTICLE BEARING WATER-REPELLING  
COATING FILM AND MANUFACTURE THEREOF**

structure can be materialized easily.

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide high durability and excellent transparency by applying emulsified water-repelling fine particles and resin to an article, drying, and hardening the applied emulsion.

**SOLUTION:** This article bearing a water-repelling coating film is obtained by applying emulsified water-repelling fine particles and a resin to an article, drying and hardening the applied emulsion. In the composition of the water-repelling coating film, since the fine particles having extremely high water-repelling property exist in a hydrophilic components, as shown in the model illustration of the cross-section structure of the water-repelling coating film, the water-repelling particles in the coating film on the article are spontaneously gathered in the surface of the coating film near the air layer due to the function of surface energy and the density of the water-repelling fine particles in the coating film is low in the article side and increases slantingly toward the surface. Moreover, the polarity of the coating film composition is heightened by emulsifying the fine particles and such a

